FIG. 1

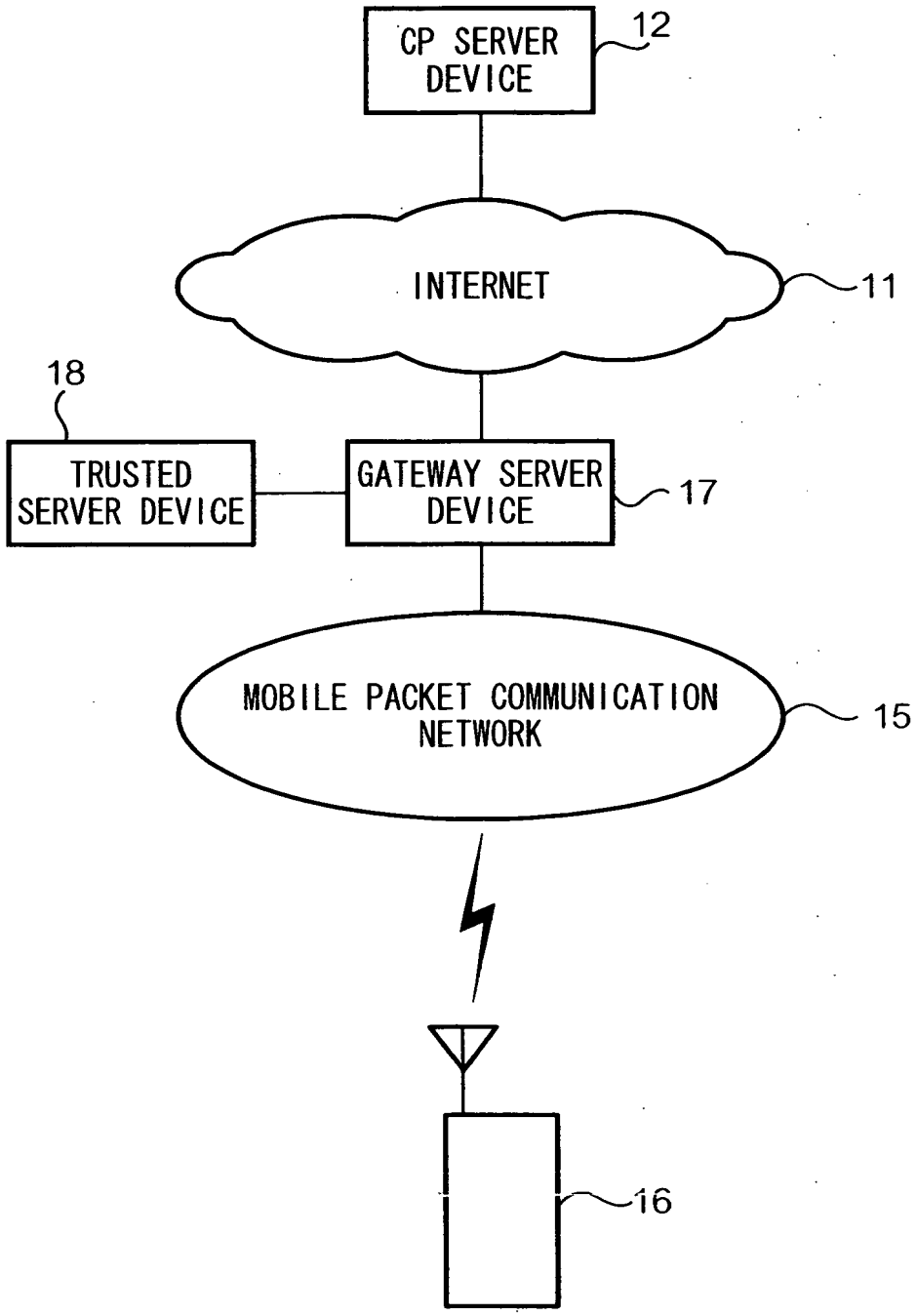

CP SERVER DEVICE
12
INTERNET
11
18
TRUSTED SERVER DEVICE
GATEWAY SERVER DEVICE
17
MOBILE PACKET COMMUNICATION NETWORK
15
16

FIG. 2

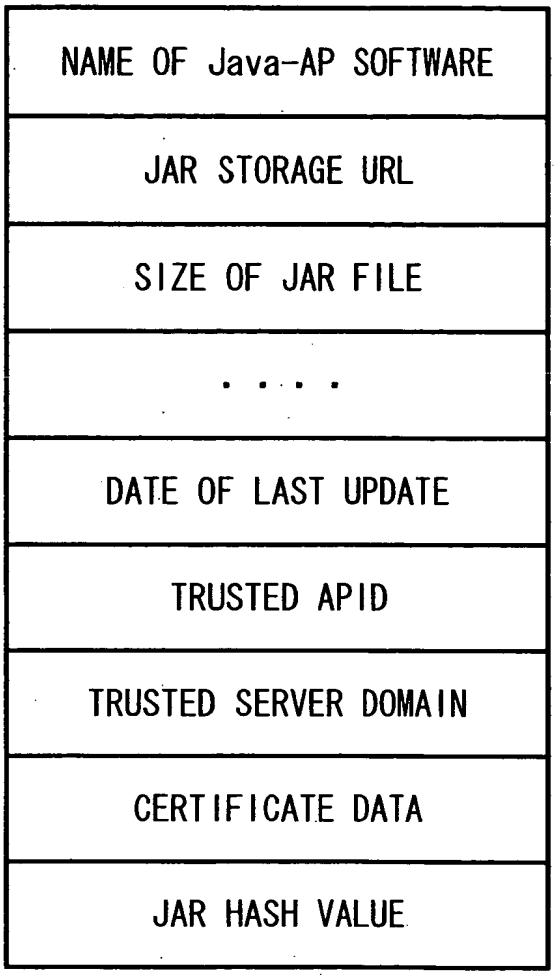

NAME OF Java-AP SOFTWARE
JAR STORAGE URL
SIZE OF JAR FILE
. . . .
DATE OF LAST UPDATE
TRUSTED APID
TRUSTED SERVER DOMAIN
CERTIFICATE DATA
JAR HASH VALUE

FIG. 3

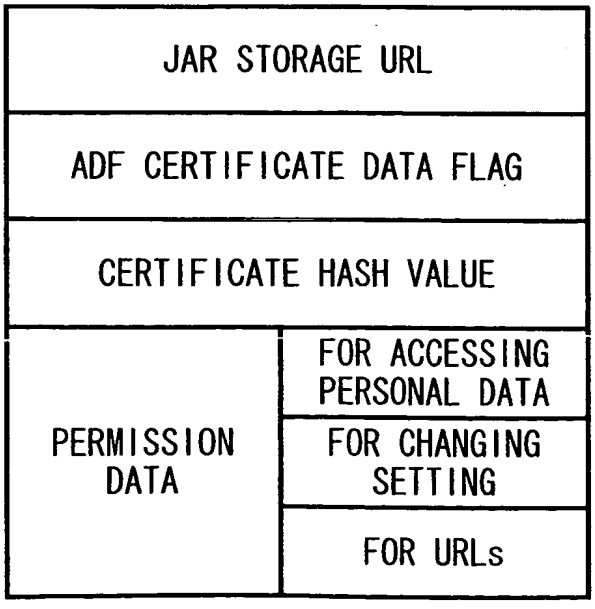

JAR STORAGE URL
ADF CERTIFICATE DATA FLAG
CERTIFICATE HASH VALUE
PERMISSION DATA
FOR ACCESSING PERSONAL DATA
FOR CHANGING SETTING
FOR URLs

FIG. 4

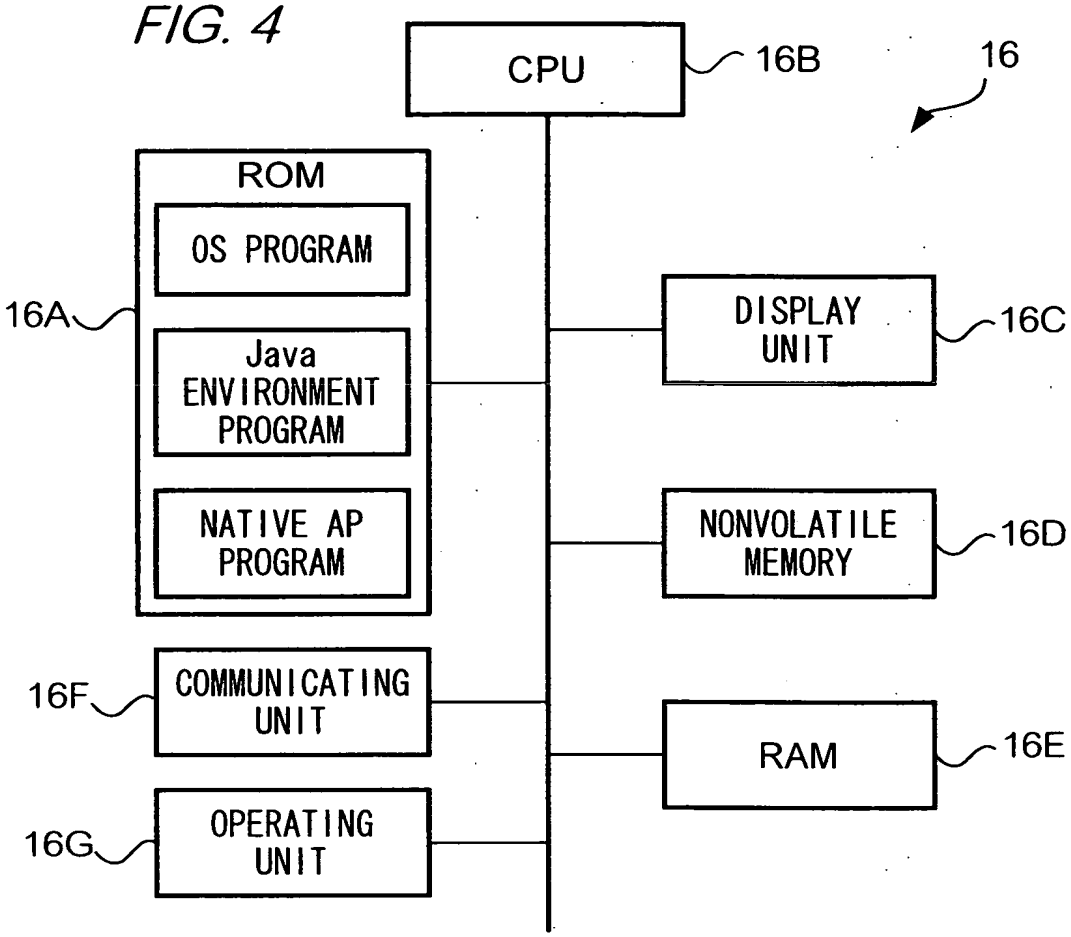

CPU
16B
16
ROM
OS PROGRAM
16A
Java ENVIRONMENT PROGRAM
NATIVE AP PROGRAM
DISPLAY UNIT
16C
NONVOLATILE MEMORY
16D
16F
COMMUNICATING UNIT
RAM
16E
16G
OPERATING UNIT

FIG. 5

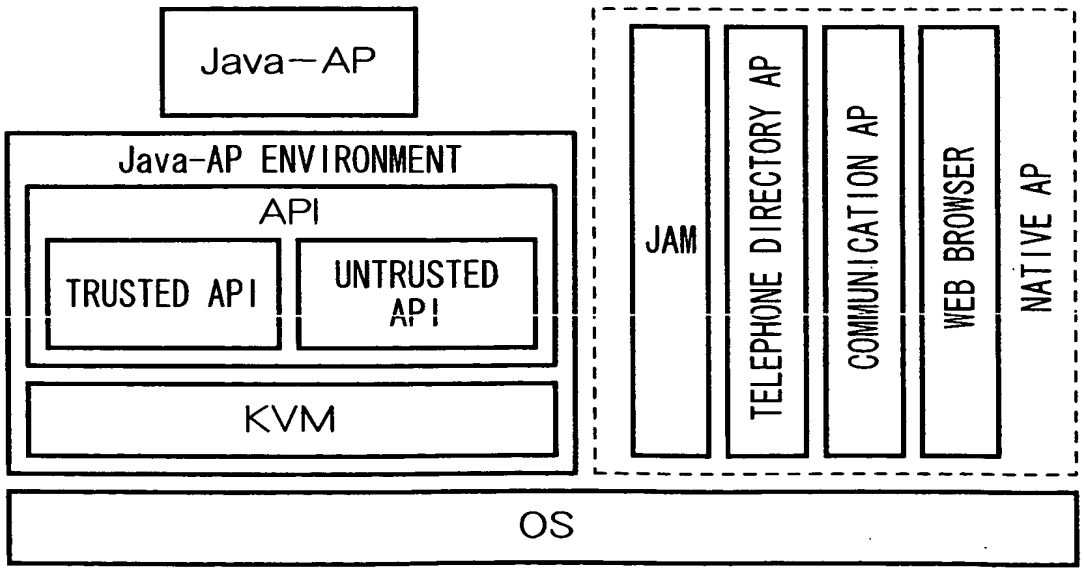

Java−AP
Java-AP ENVIRONMENT
API
TRUSTED API
UNTRUSTED API
KVM
JAM
TELEPHONE DIRECTORY AP
COMMUNICATION AP
WEB BROWSER
NATIVE AP
OS

FIG. 6

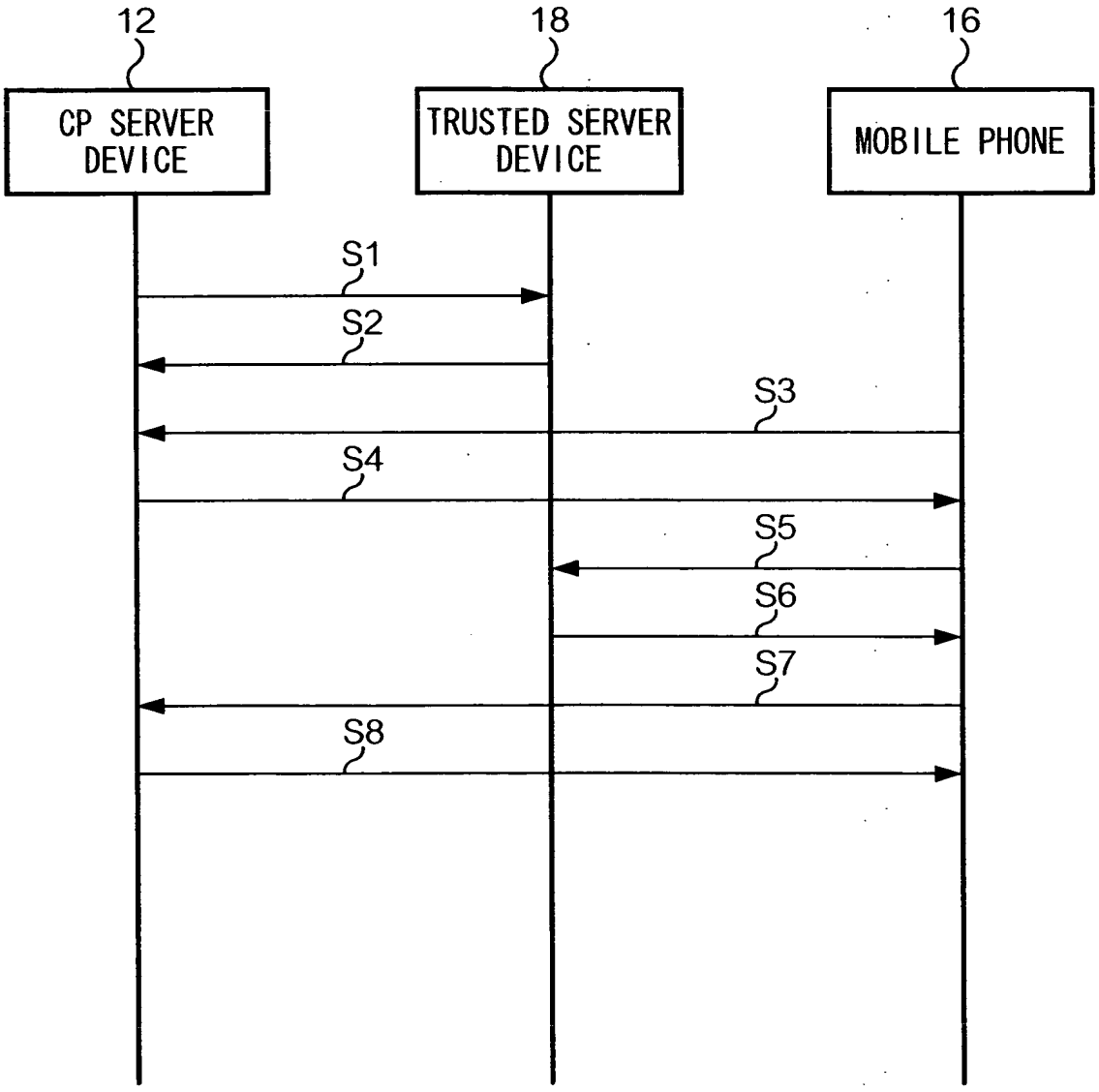
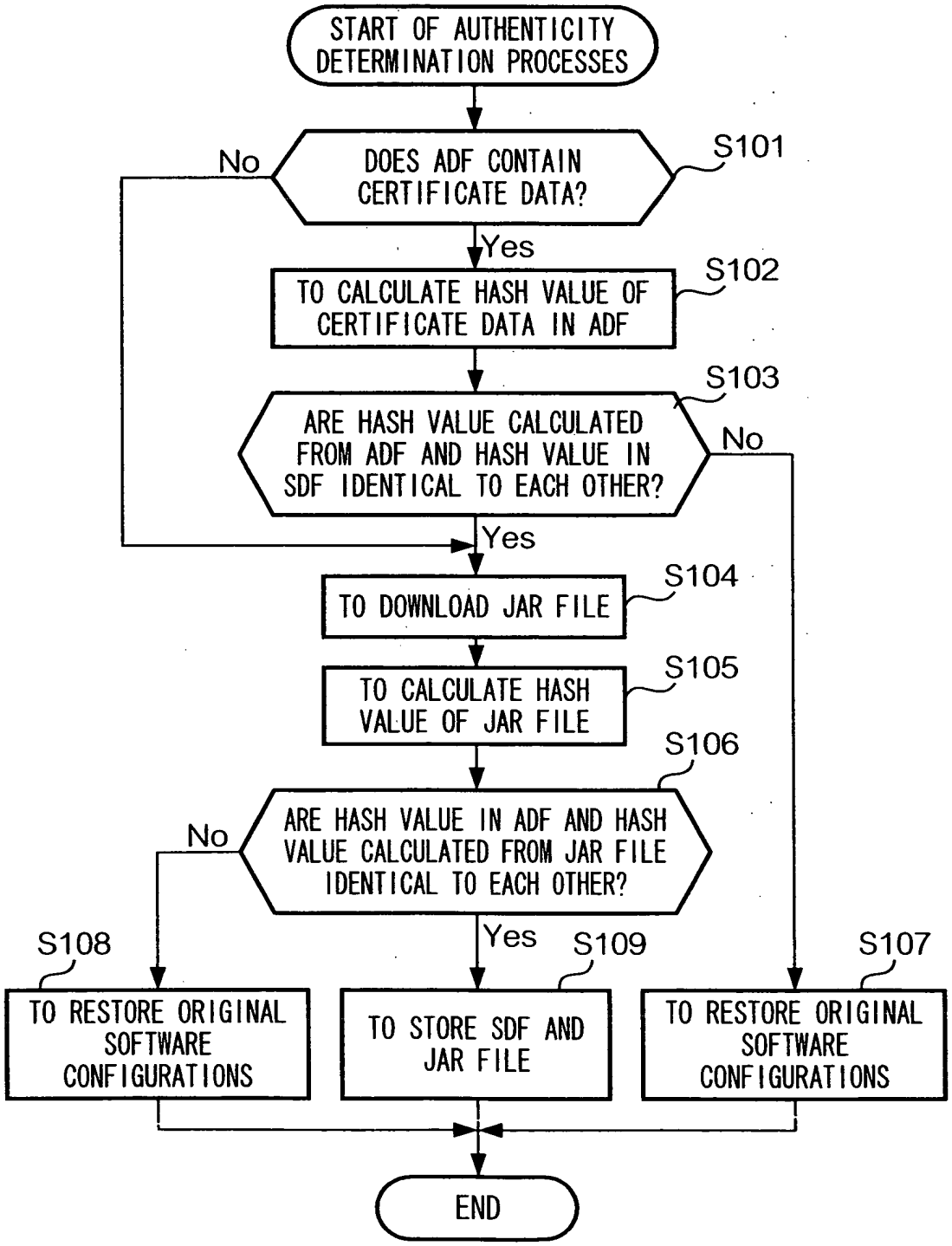

12
18
16
CP SERVER DEVICE
TRUSTED SERVER DEVICE
MOBILE PHONE
S1
S2
S3
S4
S5
S6
S7
S8

FIG. 7


START OF AUTHENTICITY DETERMINATION PROCESSES
DOES ADF CONTAIN CERTIFICATE DATA?
S101
No
Yes
TO CALCULATE HASH VALUE OF CERTIFICATE DATA IN ADF
S102
ARE HASH VALUE CALCULATED FROM ADF AND HASH VALUE IN SDF IDENTICAL TO EACH OTHER?
S103
No
Yes
TO DOWNLOAD JAR FILE
S104
TO CALCULATE HASH VALUE OF JAR FILE
S105
ARE HASH VALUE IN ADF AND HASH VALUE CALCULATED FROM JAR FILE IDENTICAL TO EACH OTHER?
S106
No
Yes
S108
TO RESTORE ORIGINAL SOFTWARE CONFIGURATIONS
TO STORE SDF AND JAR FILE
S109
TO RESTORE ORIGINAL SOFTWARE CONFIGURATIONS
S107
END